

**Attorney's Docket No.: HANS-01**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: William Paynter Hanson

Serial No.:

Group No.:

Filed: October 11, 2003

For: Integrated Biological and Chemical Sensors

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**DECLARATION OF FACTS IN SUPPORT OF PETITION TO MAKE SPECIAL  
AS INVENTION FOR COUNTERING TERRORISM (35 CFR 1.102(d))**

I, William Paynter Hanson, of 1107 Sherwood Dr., Carlisle, PA 17013, U.S.A., am the inventor and applicant in the above-identified application; and I hereby declare the following:

1. I am a practicing engineer. I graduated from Dickinson College with a B.S. in Physics in 1980, and I received both my M.A. (1988) and my Ph.D. (1993) in Materials Science and Engineering from Johns Hopkins University. I have over twenty-three years of experience in management, engineering, and manufacturing management. I have experience with commercial operations, military and space programs, and technology development
2. I am familiar with the advanced technology used for biological and chemical sensors.
3. I have developed an invention which materially contributes to countering terrorism, in both the United States and abroad, by providing an effective device for detecting and identifying explosives, chemical agents, and biological agents.
4. The sensor technology I have developed has been tested at the Naval Research Lab using nerve gas stimulants, with excellent results.
5. The sensor technology I have developed provides higher accuracy, yet is lower in cost than present sensors. It uses orthogonal technologies to reduce the rate of false alarms.

6. The sensor technology I have developed is compact for portability, and yet can be made rugged enough for military applications.
7. The sensor I have developed can be used for identifying and detecting chemical agents such as nerve gas, mustard gas, blister agents, and explosives, and biological agents such as anthrax and small pox.
8. The Naval Research Lab and I have submitted joint proposals to the Department of Defense for bio-toxin detector development, nerve gas detector development, and biological detector technology development.
9. The Pennsylvania State University and I have submitted joint proposals to the Department of Defense for chemical and biological detectors.
10. In addition, other companies have expressed interest in including my sensor technology with their existing technology.
11. The importance of my invention in contributing to a safer world cannot be overstated.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Sept 30, 2003  
Date

William Paynter Hanson  
William Paynter Hanson, Declarant

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